

## SEQUENCE LISTING

&lt;110&gt; Braun, A.

<120> POLYMORPHIC KINASE ANCHOR PROTEINS AND  
NUCLEIC ACIDS ENCODING THE SAME

&lt;130&gt; 24736-2035

&lt;140&gt; Not Yet Assigned

&lt;141&gt; 2001-04-12

&lt;150&gt; 60/217, 251

&lt;151&gt; 2000-07-10

&lt;150&gt; 60/240, 335

&lt;151&gt; 2000-10-13

&lt;160&gt; 25

&lt;170&gt; FastSEQ for Windows Version 4.0

&lt;210&gt; 1

&lt;211&gt; 2363

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (138)...(2126)

&lt;223&gt; Wild Type AKAP-10

&lt;300&gt;

&lt;308&gt; GenBank AF037439

&lt;309&gt; 1997-12-21

&lt;400&gt; 1

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Met Arg Gly Ala Gly Pro Ser Pro Arg Gln Ser	
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Pro Arg Thr Leu Arg Pro Asp Pro Gly Pro Ala Met Ser Phe Phe Arg	
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cgg aaa gtg aaa ggc aaa gaa caa gag aag acc tca gat gtg aag tcc	266
Arg Lys Val Lys Gly Lys Glu Gln Glu Lys Thr Ser Asp Val Lys Ser	
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Ile Lys Ala Ser Ile Ser Val His Ser Pro Gln Lys Ser Thr Lys Asn	
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His Ala Leu Leu Glu Ala Ala Gly Pro Ser His Val Ala Ile Asn Ala	
60 65 70 75	

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Ile Ser Ala Asn Met Asp Ser Phe Ser Ser Arg Thr Ala Thr Leu	
80 85 90	

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Lys	Lys	Gln	Pro	Ser	His	Met	Glu	Ala	Ala	His	Phe	Gly	Asp	Leu	Gly	
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Arg	Ser	Cys	Leu	Asp	Tyr	Gln	Thr	Gln	Glu	Thr	Lys	Ser	Ser	Ser	Leu	Ser
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Lys	Thr	Leu	Glu	Gln	Val	Leu	His	Asp	Thr	Ile	Val	Leu	Pro	Tyr	Phe	
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Ile	Gln	Phe	Met	Glu	Leu	Arg	Arg	Met	Glu	His	Leu	Val	Lys	Phe	Trp	
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His	Ser	Leu	Asn	Thr	Met	Lys	Gln	Ser	Ser	Leu	Ala	Glu	Pro	Val	Ser	
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Pro	Ser	Lys	Lys	His	Glu	Thr	Thr	Ala	Ser	Phe	Leu	Thr	Asp	Ser	Leu	
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gat	aag	aga	ttg	gag	gat	tct	ggc	tca	gca	cag	ttg	ttt	atg	act	cat	794
Asp	Lys	Arg	Leu	Glu	Asp	Ser	Gly	Ser	Ala	Gln	Leu	Phe	Met	Thr	His	
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Ser	Glu	Gly	Ile	Asp	Leu	Asn	Asn	Arg	Thr	Asn	Ser	Thr	Gln	Asn	His	
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ttg	ctg	ctt	tcc	cag	gaa	tgt	gac	agt	gcc	cat	tct	ctc	cgt	ctt	gaa	890
Leu	Leu	Leu	Ser	Gln	Glu	Cys	Asp	Ser	Ala	His	Ser	Leu	Arg	Leu	Glu	
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Met	Ala	Arg	Ala	Gly	Thr	His	Gln	Val	Ser	Met	Glu	Thr	Gln	Glu	Ser	
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tcc	tct	aca	ctt	aca	gta	gcc	agt	aga	aat	agt	ccc	gct	tct	cca	cta	986
Ser	Ser	Thr	Leu	Thr	Val	Ala	Ser	Arg	Asn	Ser	Pro	Ala	Ser	Pro	Leu	
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Ile	Thr	Glu	Ala	Met	Arg	Asn	Asp	Ile	Ile	Ala	Arg	Ile	Cys	Gly	Glu	
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gat	gga	cag	gtg	gat	ccc	aac	tgt	ttc	gtt	ttg	gca	cag	tcc	ata	gtc	1178
Asp	Gly	Gln	Val	Asp	Pro	Asn	Cys	Phe	Val	Leu	Ala	Gln	Ser	Ile	Val	
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Phe	Ser	Ala	Met	Glu	Gln	Glu	His	Phe	Ser	Glu	Phe	Leu	Arg	Ser	His	

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gca gat aac ttc cag tct cag ctt gct gcc aaa aag ggg caa tat gat Ala Asp Asn Phe Gln Ser Gln Leu Ala Ala Lys Lys Gly Gln Tyr Asp 415	420	425	1418
gga cag gag gca cag aat gat gcc atg att tta tat gac aag tac ttc Gly Gln Glu Ala Gln Asn Asp Ala Met Ile Leu Tyr Asp Lys Tyr Phe 430	435	440	1466
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ccg act gct cct ggc tct gtt ggc cct cct gat gag tct cac cca ggg Pro Thr Ala Pro Gly Ser Val Gly Pro Pro Asp Glu Ser His Pro Gly 525	530	535	1754
agt tct gac agc tct gcg tct cag tcc agt gtg aaa aaa gcc agt att Ser Ser Asp Ser Ser Ala Ser Gln Ser Ser Val Lys Lys Ala Ser Ile 540	545	550	1802
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ctg gat cca gaa tct tta tat caa cgg aca tat gcc ggg aag atg aca Leu Asp Pro Glu Ser Leu Tyr Gln Arg Thr Tyr Ala Gly Lys Met Thr 575	580	585	1898
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Lys Glu Gln Glu Lys Thr Ser Asp Val Lys Ser Ile Lys Ala Ser Ile 35 40 45	
Ser Val His Ser Pro Gln Lys Ser Thr Lys Asn His Ala Leu Leu Glu 50 55 60	
Ala Ala Gly Pro Ser His Val Ala Ile Asn Ala Ile Ser Ala Asn Met 65 70 75 80	
Asp Ser Phe Ser Ser Arg Thr Ala Thr Leu Lys Lys Gln Pro Ser 85 90 95	
His Met Glu Ala Ala His Phe Gly Asp Leu Gly Arg Ser Cys Leu Asp 100 105 110	
Tyr Gln Thr Gln Glu Thr Lys Ser Ser Leu Ser Lys Thr Leu Glu Gln 115 120 125	
Val Leu His Asp Thr Ile Val Leu Pro Tyr Phe Ile Gln Phe Met Glu 130 135 140	
Leu Arg Arg Met Glu His Leu Val Lys Phe Trp Leu Glu Ala Glu Ser 145 150 155 160	
Phe His Ser Thr Thr Trp Ser Arg Ile Arg Ala His Ser Leu Asn Thr 165 170 175	
Met Lys Gln Ser Ser Leu Ala Glu Pro Val Ser Pro Ser Lys Lys His 180 185 190	
Glu Thr Thr Ala Ser Phe Leu Thr Asp Ser Leu Asp Lys Arg Leu Glu 195 200 205	
Asp Ser Gly Ser Ala Gln Leu Phe Met Thr His Ser Glu Gly Ile Asp 210 215 220	
Leu Asn Asn Arg Thr Asn Ser Thr Gln Asn His Leu Leu Leu Ser Gln 225 230 235 240	
Glu Cys Asp Ser Ala His Ser Leu Arg Leu Glu Met Ala Arg Ala Gly 245 250 255	
Thr His Gln Val Ser Met Glu Thr Gln Glu Ser Ser Ser Thr Leu Thr 260 265 270	
Val Ala Ser Arg Asn Ser Pro Ala Ser Pro Leu Lys Glu Leu Ser Gly 275 280 285	
Lys Leu Met Lys Ser Ile Glu Gln Asp Ala Val Asn Thr Phe Thr Lys 290 295 300	
Tyr Ile Ser Pro Asp Ala Ala Lys Pro Ile Pro Ile Thr Glu Ala Met 305 310 315 320	
Arg Asn Asp Ile Ile Ala Arg Ile Cys Gly Glu Asp Gly Gln Val Asp	

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Pro Asn Cys	Phe Val Leu Ala Gln Ser	Ile Val Phe Ser Ala Met Glu		
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Gln Glu His	Phe Ser Glu Phe Leu Arg Ser His His	Phe Cys Lys Tyr		
	355	360	365	
Gln Ile Glu	Val Leu Thr Ser Gly Thr Val Tyr Leu Ala Asp Ile Leu			
	370	375	380	
Phe Cys Glu	Ser Ala Leu Phe Tyr Phe Ser Glu Tyr Met Glu Lys Glu			
	385	390	395	400
Asp Ala Val	Asn Ile Leu Gln Phe Trp	Leu Ala Ala Asp Asn Phe Gln		
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Ser Gln Leu	Ala Ala Lys Lys Gly Gln	Tyr Asp Gly Gln Glu Ala Gln		
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Asn Asp Ala	Met Ile Leu Tyr Asp Lys Tyr Phe Ser	Leu Gln Ala Thr		
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His Pro Leu	Gly Phe Asp Asp Val Val Arg Leu Glu	Ile Glu Ser Asn		
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Arg Gln Ala	Trp Thr Thr Met Glu Lys Val Phe Leu Pro Gly Phe Leu			
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Ser Ser Asn Leu	Tyr Tyr Lys Tyr Leu Asn Asp Leu Ile His Ser Val			
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Arg Gly Asp	Glu Phe Leu Gly Gly Asn Val Ser Pro Thr Ala Pro Gly			
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Ser Val Gly	Pro Pro Asp Glu Ser His Pro Gly Ser Ser Asp Ser Ser			
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Ala Ser Gln Ser	Ser Val Lys Lys Ala Ser Ile Lys Ile Leu Lys Asn			
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Phe Asp Glu Ala	Ile Ile Val Asp Ala Ala Ser Leu Asp Pro Glu Ser			
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Leu Tyr Gln Arg	Thr Tyr Ala Gly Lys Met Thr Phe Gly Arg Val Ser			
	580	585	590	
Asp Leu Gly Gln	Phe Ile Arg Glu Ser Glu Pro Glu Pro Asp Val Arg			
	595	600	605	
Lys Ser Lys Gly	Ser Met Phe Ser Gln Ala Met Lys Lys Trp Val Gln			
	610	615	620	
Gly Asn Thr Asp	Glu Ala Gln Glu Leu Ala Trp Lys Ile Ala Lys			
	625	630	635	640
Met Ile Val Ser	Asp Ile Met Gln Gln Ala Gln Tyr Asp Gln Pro Leu			
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Glu Lys Ser Thr	Lys Leu			
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&lt;210&gt; 3

&lt;211&gt; 2363

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (138) ... (2126)

&lt;223&gt; AKAP-10-5

&lt;221&gt; allele

&lt;222&gt; 2073

&lt;223&gt; Single Nucleotide Polymorphism: A to G

&lt;400&gt; 3

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tccggggccgg ttgctga atg agg gga gcc ggg ccc tcc ccg cgc cag tcc	170
Met Arg Gly Ala Gly Pro Ser Pro Arg Gln Ser	

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5

10

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Pro Arg Thr Leu Arg Pro Asp Pro Gly Pro Ala Met Ser Phe Phe Arg	
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cgg aaa gtg aaa ggc aaa gaa caa gag aag acc tca gat gtg aag tcc	266
Arg Lys Val Lys Gly Lys Glu Gln Glu Lys Thr Ser Asp Val Lys Ser	
30 35 40	
att aaa gct tca ata tcc gta cat tcc cca caa aaa agc act aaa aat	314
Ile Lys Ala Ser Ile Ser Val His Ser Pro Gln Lys Ser Thr Lys Asn	
45 50 55	
cat gcc ttg ctg gag gct gca gga cca agt cat gtt gca atc aat gcc	362
His Ala Leu Leu Glu Ala Ala Gly Pro Ser His Val Ala Ile Asn Ala	
60 65 70 75	
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Ile Ser Ala Asn Met Asp Ser Phe Ser Ser Arg Thr Ala Thr Leu	
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aag aag cag cca agc cac atg gag gct gct cat ttt ggt gac ctg ggc	458
Lys Lys Gln Pro Ser His Met Glu Ala Ala His Phe Gly Asp Leu Gly	
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Arg Ser Cys Leu Asp Tyr Gln Thr Gln Glu Thr Lys Ser Ser Leu Ser	
110 115 120	
aag acc ctt gaa caa gtc ttg cac gac act att gtc ctc cct tac ttc	554
Lys Thr Leu Glu Gln Val Leu His Asp Thr Ile Val Leu Pro Tyr Phe	
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Leu Glu Ala Glu Ser Phe His Ser Thr Thr Trp Ser Arg Ile Arg Ala	
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His Ser Leu Asn Thr Met Lys Gln Ser Ser Leu Ala Glu Pro Val Ser	
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Ser Glu Gly Ile Asp Leu Asn Asn Arg Thr Asn Ser Thr Gln Asn His	
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atg gcc aga gca gga act cac caa gtt tcc atg gaa acc caa gaa tct	938
Met Ala Arg Ala Gly Thr His Gln Val Ser Met Glu Thr Gln Glu Ser	
255 260 265	
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Ser Ser Thr Leu Thr Val Ala Ser Arg Asn Ser Pro Ala Ser Pro Leu			
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Lys Glu Leu Ser Gly Lys Leu Met Lys Ser Ile Glu Gln Asp Ala Val			
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Asn Thr Phe Thr Lys Tyr Ile Ser Pro Asp Ala Ala Lys Pro Ile Pro			
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320	325	330	
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Phe Ser Ala Met Glu Gln Glu His Phe Ser Glu Phe Leu Arg Ser His			
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Tyr Met Glu Lys Glu Asp Ala Val Asn Ile Leu Gln Phe Trp Leu Ala			
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Ala Asp Asn Phe Gln Ser Gln Leu Ala Ala Lys Lys Gly Gln Tyr Asp			
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Gly Gln Glu Ala Gln Asn Asp Ala Met Ile Leu Tyr Asp Lys Tyr Phe			
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Ser Leu Gln Ala Thr His Pro Leu Gly Phe Asp Asp Val Val Arg Leu			
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Glu Ile Glu Ser Asn Ile Cys Arg Glu Gly Gly Pro Leu Pro Asn Cys			
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Phe Thr Thr Pro Leu Arg Gln Ala Trp Thr Thr Met Glu Lys Val Phe			
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Leu Pro Gly Phe Leu Ser Ser Asn Leu Tyr Tyr Lys Tyr Leu Asn Asp			
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Leu Ile His Ser Val Arg Gly Asp Glu Phe Leu Gly Gly Asn Val Ser			
510	515	520	
ccg act gct cct ggc tct gtt ggc cct cct gat gag tct cac cca ggg			1754
Pro Thr Ala Pro Gly Ser Val Gly Pro Pro Asp Glu Ser His Pro Gly			

525

530

535

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35 40 45	
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